

Application No. 10/840,178  
Paper Dated: January 25, 2008  
In Reply to USPTO Correspondence of September 25, 2007  
Attorney Docket No. 2034-044072

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No. : 10/840,178 Confirmation No. 7502  
Applicants : ROY H. HAMMERSTEDT et al.  
Filed : May 6, 2004  
Title : INTERROGATION OF CHANGES IN THE  
CONTENTS OF A SEALED CONTAINER  
Group Art Unit : 1641  
Examiner : Christopher L. Chin  
Customer No. : 28289

MAIL STOP AMENDMENT  
Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

AMENDMENT

Sir:

In response to the Office Action of September 25, 2007, please amend the above-identified application as follows:

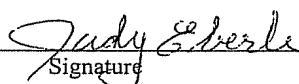
**Amendments to the Claims** are reflected in the listing of claims which begins on page 2 of this paper.

**Remarks** begin on page 6 of this paper.

A Petition for one-month extension of time along with the requisite fee is filed concurrently herewith.

I hereby certify that this correspondence is being electronically submitted to the United States Patent and Trademark Office on the date below.

01/25/2008  
Date

  
Signature

Judy Eberle  
Typed Name of Person Signing Certificate

emitting detectable light of a unique wavelength on excitation by fluorescent resonance transfer by the first fluorescent receptor; b) a combination of a first receptor and a second receptor, the first receptor binding a cell and the second receptor undergoing a detectable spectral change in response to material released by the cell bound to the first receptor; c) a combination of two inhibited fluorescent groups linked by an enzymatic cleavage site, and wherein enzymatic action cleaves the enzymatic cleavage site and releases the fluorescent inhibition; and d) a combination of a first receptor and a second receptor, the first receptor binding a cell capable of releasing an enzyme and the second receptor being an inhibited fluorescent group wherein the enzyme releases the fluorescent inhibition.

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Claim 49. (Currently Amended) A sensor device, comprising:

a biosensor comprising a receptor bound on a solid substrate;

a sensor compartment having an interior and an exterior, and enclosing the biosensor, the sensor compartment having a surface allowing external viewing of the biosensor; and

6 a separation barrier forming at least a portion of the sensor compartment, the separation barrier being selected from the group consisting of a fibril membrane, a microporous membrane and a capillary-pore membrane, the separation barrier having at least one pore allowing fluid communication between the interior and the exterior of the sensor compartment, wherein the biosensor further comprises a bioactive detector molecule and signal material which are each attached to a surface of the biosensor wherein the bioactive detector molecule and signal material are selected from the group consisting of a) a combination of a first fluorescent receptor and a second fluorescent receptor, the second fluorescent receptor emitting detectable light of a unique wavelength on excitation by fluorescent resonance transfer by the first fluorescent receptor; b) a combination of a first receptor and a second receptor, the first receptor binding a cell and the second receptor undergoing a detectable spectral change in response to material released by the cell bound to the first receptor; c) a combination of two inhibited fluorescent groups linked by an enzymatic cleavage site, and wherein enzymatic action cleaves the enzymatic cleavage site and releases the fluorescent inhibition; d) a combination of a first receptor and a second receptor, the first receptor binding a cell capable of releasing an enzyme and the second receptor being an inhibited fluorescent group wherein the enzyme releases the fluorescent